



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090577

Mode: Highway

Status: Submitted

NC-50

From/Cross Street: I-540

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 98

Project Category: Regional Impact

Length: 5.12

TIP#: FS-1205D

Fully Funded in Draft STIP? No

Cost to NCDOT: \$72,876,000

Description:

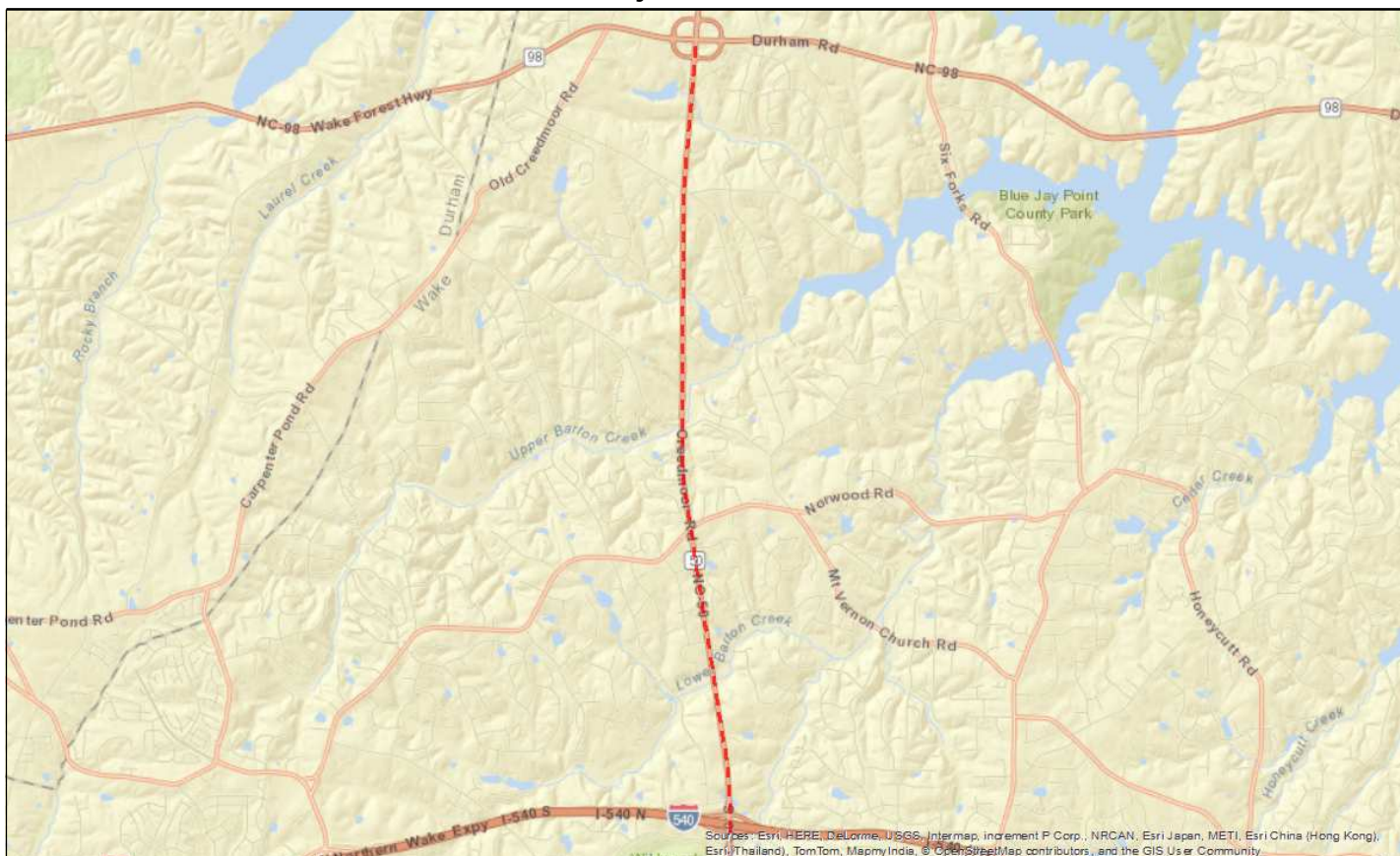
Widen from 2 to 4 Lanes.

Division(s): Division 5

County(s): WAKE

MPOS(s)/RPO(s): Capital Area MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 61.39

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 73.55	Percent: 15% Points: 94	Percent: 15% Points: 100
Safety (10%) 78.34		
[Travel Time] Benefit/Cost (25%) 7.03		
Accessibility / Connectivity (10%) 43.16		
Totals: Weight: 70% Weighted Score: 32.29		

Division Needs Total Score: 23.95

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 73.55	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%) 78.34		
[Travel Time] Benefit/Cost (20%) 7.03		
Totals: Weight: 50% Weighted Score: 23.95		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	5.12
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	17638.5
Capacity:	15916.86
Volume/Capacity Ratio:	1.11
% Autos:	96%
% Trucks:	4%
Truck Volume:	667.19
Crash Density:	99.8
Crash Severity:	61.38
Critical Crash Rate:	73.85
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	21
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	72
Actual Congested Speed:	44.49
Travel Time Index:	1.23

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	5.12
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	22930710.7
Travel Time Savings for 30 Years (Autos):	22063342.26
Travel Time Savings for 30 Years (Trucks):	867368.44
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	94	0
	0%	0	0
	0%	0	0
TOTAL Division Points		94	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$36,252,000	TIP Unit
Right-of-Way Cost:	\$32,700,000	Cost Estimation Tool
Utilities Cost:	\$3,924,000	Cost Estimation Tool
Total Project Cost:	\$72,876,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$72,876,000	